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# Computer Science: miscellanea and some info

How is it composed:

* The major works in pathways, Major and Minor.
  + The Major consisting of 5 subjects, the Minor of 2. Among the Majors there is AI, and if you want among the Minors there is one directed toward the study of data. After that you have 3 compulsory exams for all, and the other exams are optional (however there are several AI ones).
  + There are 3 Majors - “Artificial intelligence”, “Internet mobile and security” e “Programming languages and systems”

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* + There are 3 Minors – “Internet of Things and Embedded Systems”, “Data and Process Management” e “Innovation and Entrepreneurship in ICT”

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Reference site:

* <https://informatica.math.unipd.it/en/master.html>

Be sure to check out all the rules here (Italian based):

* <https://didattica.unipd.it/didattica/allegati/regolamento/regolamento/1009444.pdf>

Requirements to enroll:

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Site to have more info to enroll (checking the “Avviso di ammissione” document) and checking all the deadlines in the same page:

* <https://www.unipd.it/ammissioni-scienze-magistrali>

You can also check all the courses here:

* <https://didattica.unipd.it/off/2023/LM/SC/SC2598/percorso_formativo.pdf>

We also have a Telegram channel dedicated to that:

* <https://t.me/computerScienceUNIPD>
* <https://t.me/FIUPd> (this one suited for more general info on the matters of all CS courses and master’s degrees)

Check out some rules about presenting the language certifications here:

* <https://www.scienze.unipd.it/en/courses/english-language/master-degree/2223/#c1713>

These are the main professors:

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# How to enroll

* The general rules are listed here:
  + <https://www.unipd.it/avvisi-ammissione-lauree-magistrali> (italian)
  + <https://www.unipd.it/avvisi-ammissione-lauree-magistrali-inglese> (english)
* Check out the procedure and ending terms from:
  + <https://www.unipd.it/sites/unipd.it/files/2023/2023_Istruzioni_magistrali_V1.pdf>

You first must go to the Uniweb site and completing the “Preimmatricolazione” (pre-enrollment procedure) part, so (rules in italian menu voices listed below):

* <https://uniweb.unipd.it/Root.do>
* Click on the hamburger menu, then select Didattica > Preimmatricolazione ad accesso libero > Laurea Magistrale > Computer Science and all the data should be listed there; here you can see the final score of you Bachelor if you already have one, otherwise, if you come from one another school, department, etc., you can list the courses passed singularly
  + It’s also listed the complete thing at page 1 (italian) or 7 (english) inside:
    - <https://www.unipd.it/sites/unipd.it/files/2023/2023_Istruzioni_magistrali_V1.pdf>
* In any case, select all the requirements listed here, to prove you can enroll
  + <https://apex.cca.unipd.it/pls/apex/f?p=272:1:16052251028418:::::&tz=2:00>

After a few days, you receive the result from the teaching secretariat, saying you were “Eligible - Idoneo” or not; if you are, you should complete the “Immatricolazione” (enrollment procedure), so (rules in italian menu voices listed below):

* <https://uniweb.unipd.it/Root.do>
* Click on the hamburger menu, then select Didattica > Immatricolazione and complete all the procedure
  + It’s also listed the complete thing at page 7 (italian) or 14 (english) inside:
    - <https://www.unipd.it/sites/unipd.it/files/2023/2023_Istruzioni_magistrali_V1.pdf>

Now, if you were a student before at UniPD you should see a strange situation; infact, you should see a previous career at link “Altre carriere”, where you graduated at a previous teaching course, and the course you are waiting for the enrollment procedure to complete.

Keep in mind that the procedure takes a few working days; after those, you should receive an email with all the necessary information (university matriculation number) and the first university fee of the year should appear in the reserved area.

Keep also in mind that, to receive a tax reduction, you should present every year the ISEE for the Right to Study in College (Diritto Universitario); you should do it like this, and you can see al the rules inside of this:

* <https://www.unipd.it/isee> (for international and english students)

Via Uniweb, you should do the “Richiesta di Agevolazioni”, so (italian menu voices):

* <https://uniweb.unipd.it/Root.do>
* Click on the hamburger menu, then select Diritto allo studio, Disabilità/DSA, Corsi estivi > Richiesta di Agevolazioni and select the “Permetti all’INPS di recuperare i tuoi dati”

# Study plan and courses

As stated from: <https://informatica.math.unipd.it/en/master/study-plan/>

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Specifically, let’s talk about the bureaucratic structure of the Master. We have 120 credits in 2 years:

* 78 credits for courses (13 courses for 6 credits)
  + 54 credits in Computer Science (9 ex.) [caratterizzanti]
  + 12 credits for (2 ex.) in related fields (economics/math/bio/inf./theory) [affini]
  + 12 credits for (2 ex.) in free-choice courses [liberi]
* 6 credits for other activities (seminars, internships)
* 3 credits for English B2 writing/speaking
* 33 credits for the master thesis project (one semester approximately)

These here are the “Other elective courses”:

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Also, 6 credits of “Other training activities”, with rules listed here:

* <https://stem.elearning.unipd.it/pluginfile.php/387913/mod_label/intro/Regulations-Other-Activities-Masters-Degree.pdf>

So, to point this out:

* **Three mandatory courses**
  + Computability
  + Advanced Algorithms
  + Economics of Management and Innovation
* **7 additional CS courses “caratterizzanti” that need to be chosen**

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These ones as said are organized in:

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* **4 out of 5 courses of a Major** you’re interested in
* **One from the “Other elective courses” listed above**
* **3 credits of Oral B2**
* **2 free choice courses** from all the Master’s degrees present, including this one of course (can be in Major or Minors, doesn’t matter)

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You fill find an unofficial but very good template of study plan here:

<https://docs.google.com/document/d/1KKeVbj_22G6qgHtxQXVQluMV1ZtUgJtLloeNB3uUe9s>

Another important thing:

* **6 credits of Other Training Activities**, where the full info can be found here:
  + <https://stem.elearning.unipd.it/course/view.php?id=4297>

As a reference from the Welcome Day slides:

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Descrizione generata automaticamente

Consider:

* The courses are in different semesters, so prepare it carefully and you will organize everything the way you want.
* Our Moodle pages for courses are here (then going inside “Computer Science”):
  + <https://stem.elearning.unipd.it/course/index.php?categoryid=567>
* A Moodle is basically the course page where you will have access to material, recordings in case, communications, etc.
  + Only you subscribe to a certain Moodle, you can have access to announcements aka mail from the teacher/recorded lessons (otherwise you will have no privileges to see)
* There you will select the single course and clicking the second button to Enroll in a course here, where is listed “Corso di Laurea”

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* If you don’t have the Moodle key, ask the teacher, classmates or the Telegram channels
  + In case, sometimes the key works for some people, but not everyone for some reason; tell the teacher in case
* For each course, you can have reference from the FIUP group, made for all Computer Science related bachelors and masters here on Telegram:
  + <https://t.me/FIUPd>
* You can also find each course group link from Telegram here (some are missing):
  + <https://t.me/fiup_menu>
* We also have a dedicated group from Computer Science (refer here for courses missing):
  + <https://t.me/computerScienceUNIPD>
* To have all the proper material for any course, highly advised to ask for the MEGA cloud, clicking the form here:
  + <https://goo.gl/forms/e1q9GhYeqwEh4uNn1>
* There you will be accepted as soon as an admin will see your request; takes time (they all work, don’t stress them out)
* Inside the following site, you can also check the timetables for each course:
  + <https://goo.gl/forms/e1q9GhYeqwEh4uNn1>

Other useful things:

* MyUniPD app to see your marks and have general control of your UniPD career
* Orari UniPD to have a profile with all the courses timetables in a single app
* DM Math UniPD to also check the Department classrooms availability
  + Also visible here for Aule Studio (classrooms made for studying, more info online):
    - <https://agendastudentiunipd.easystaff.it/index.php?view=aulestudio&include=aulestudio&_lang=it>
  + And here for all classrooms:
    - <https://agendastudentiunipd.easystaff.it/index.php?view=rooms&include=rooms&_lang=it>

# Courses type for semesters

As of the syllabus present here: <https://www.didattica.unipd.it/off/2023/LM/SC/SC2598>

You can also have a comprehensive view here: <https://informatica.math.unipd.it/en/master/courses/>

Inside of here, usually, you also find the STEM Moodle needed to have access to each course material and stuff.

First semester – First Year:

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There is also an additional CS course “Advanced topics in Computer Science”, held by international professors, container for advanced topics and which content changes every year (counts for Other training activities)

Second semester – First Year:

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It’s advised from the Welcome Day slides to follow this road:

* 1st year
  + 1st semester (5 courses)
  + 2nd semester (5 courses)
* 2nd year
  + 1st semester (5 courses)
  + 2nd semester (Master project)

Keep in mind you can do whatever you want (follow as many courses as you like). No one forces you to do anything, as you can see from the structure of this degree, it’s almost completely free. But this is strictly advised to not go insane and to have somewhat of an order to try your best.

# English Language B2

Reference site: <https://www.scienze.unipd.it/en/courses/english-language/master-degree>

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This part is written because of the three credits we must recognize the needed B2 Speaking part. You can take this exam whenever you want, just before the graduation of course. You won’t speak to people, it will be only you recording to a PC according to the test structure below.

Remember or notice that, if you have a certification, you can have it recognized officially via the rules listed here: <https://cla.unipd.it/test-linguistici/certificazioni/>

Concretely, as said inside: <https://www.scienze.unipd.it/inglese-lm-2223/>

* We do have to take an oral test to pass, having it booked inside the CLA website. Here you will find more information about a preparatory course (not mandatory to take the exam):
  + <https://cla.unipd.it/attivita/corsi/corso-tal-b2-speaking/>
* Here you can effectively see a mock of the oral test here:
  + <https://elearning.unipd.it/cla/course/view.php?id=1723>

The test, as reported, has this structure: fundamentally, it’s a Moodle test in which you record text and talk for a while, summarizing or just talking.

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One thing to note is that, as can be seen from the video available on the Moodle mock test page above, each time you recorded something, you must listen for it and downloading it, just to see if it worked. When you take the test, the examiners, which will repeat twice instructions in Italian and English, will tell you this. First, they will tell you the exam structure, the Moodle password, they will give you a piece of paper to take notes and the exam is just that.

Inside of: <https://cla.unipd.it/test-linguistici/date-tal/>

* you should check the dates for “TAL B2 Orale (computer-based)” or “TAL B2 Oral Test”, in which you will do the test, booking in a proper Moodle the date you want to pass the English Exam and taking the credits.
* After one/two weeks you should receive the result of the exam. Then, inside your UniPD mail you will receive the proper Open Badge and your credits will soon be registered inside your record book (libretto)

# Master Thesis

This one goes for 33 CFU, quite a lot.

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As also listed from

To stimulate thesis projects with Startup-View and Internships, the course of study organizes Company-student meetings with the support of the partners.

* When to start and how to find a supervisor

The Master Thesis is the concluding activity of the study path. Since it is intended to lead to the realization of a relevant piece of work, it requires the student to work regularly and with limited distractions. For these reasons, the Master Project should be started after finishing the course exams or, at least, when the number of course exams still to be given is limited (say, 2/3 at most). Ideally, this should happen at the beginning of the second semester of the second year (but in case you are late with the exams, first concentrate on them).

When you feel ready to start, the first step consists in finding a supervisor (this applies also to the case in which you might be interested in realising your project in a company). There is no formalized procedure for this: simply contact the professors of the courses that you liked most and/or in the area where you’d like to realise your project and discuss the possible thesis themes.

* Evaluation of the Master Thesis (from July 2023)

The final degree grade is calculated as the sum of the master thesis grade and the weighted average of the exams passed, normalized on a scale of 0 to 110 (i.e., average \* 110/30).

The master thesis is evaluated according to the following grading scheme:

* 0-3: sufficient
* 4-5: good
* 6-7: very good
* 8-9: excellent (requires the opinion of an independent reviewer)

The supervisor proposes a grade, possibly asking for the opinion of an independent reviewer. The student presents the thesis in front a graduation committee (the discussion is in English). The final grade is decided by the graduation committee through a majority vote. The distinction (laude) is awarded to students who demonstrated very good or excellent quality in the curriculum, in the thesis, and in the final thesis defense; it requires unanimity.

The following bonus points are added to the thesis grade:

* 1 point for completing all exams by July of the second year
* 1 point for graduation by December of the second year

More details on:

<https://informatica.math.unipd.it/files/RegolamentoTesiMagistrale-EN-2023.pdf>